

UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

PATENT NO. : 7,167,277 B2  
APPLICATION NO. : 10/602642  
DATED : January 23, ~~2006~~ 2007  
INVENTOR(S) : Masayoshi Shimizu et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page, Column 2 (Abstract), Item 57 Line 11, after "range" insert --.--.

Title Page, Column 2 (Abstract), Item 57 Line 12, change "a problem" to --problems--.

This certificate supersedes certificate of correction  
issued April 17, 2007.

Signed and sealed this

Seventeenth day of April 2007



Director of the United States Patent and Trademark Office